

FIG. 1

FIG. 2

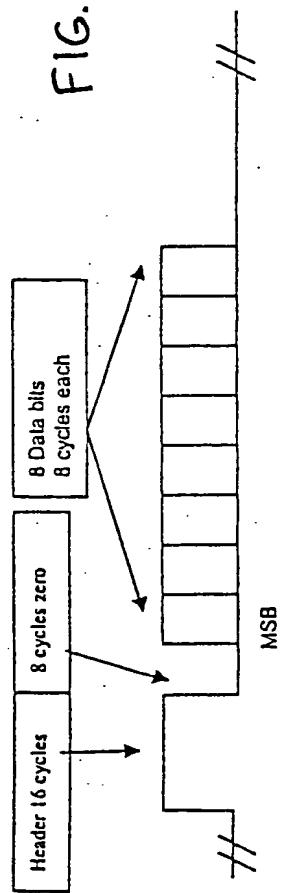
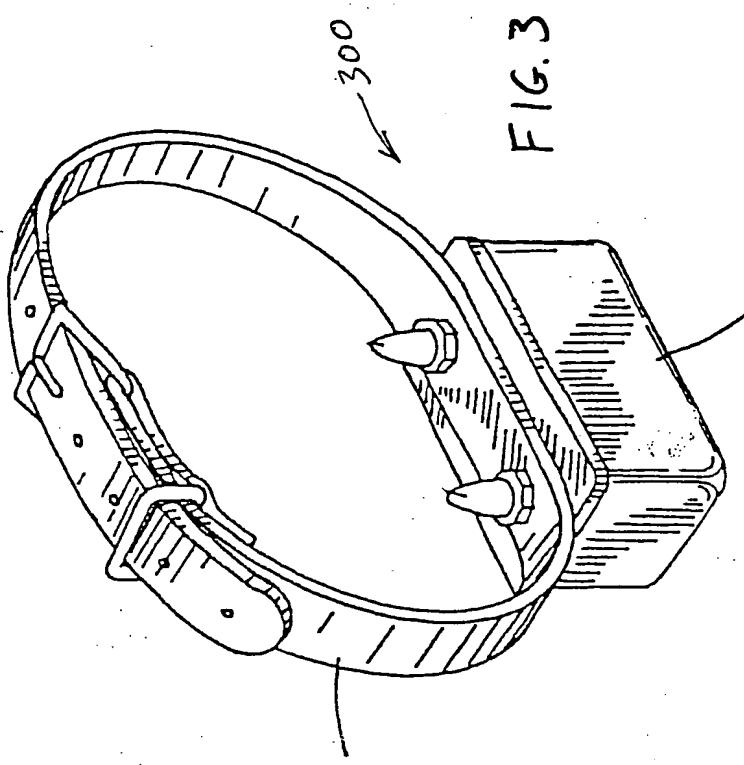


FIG. 3



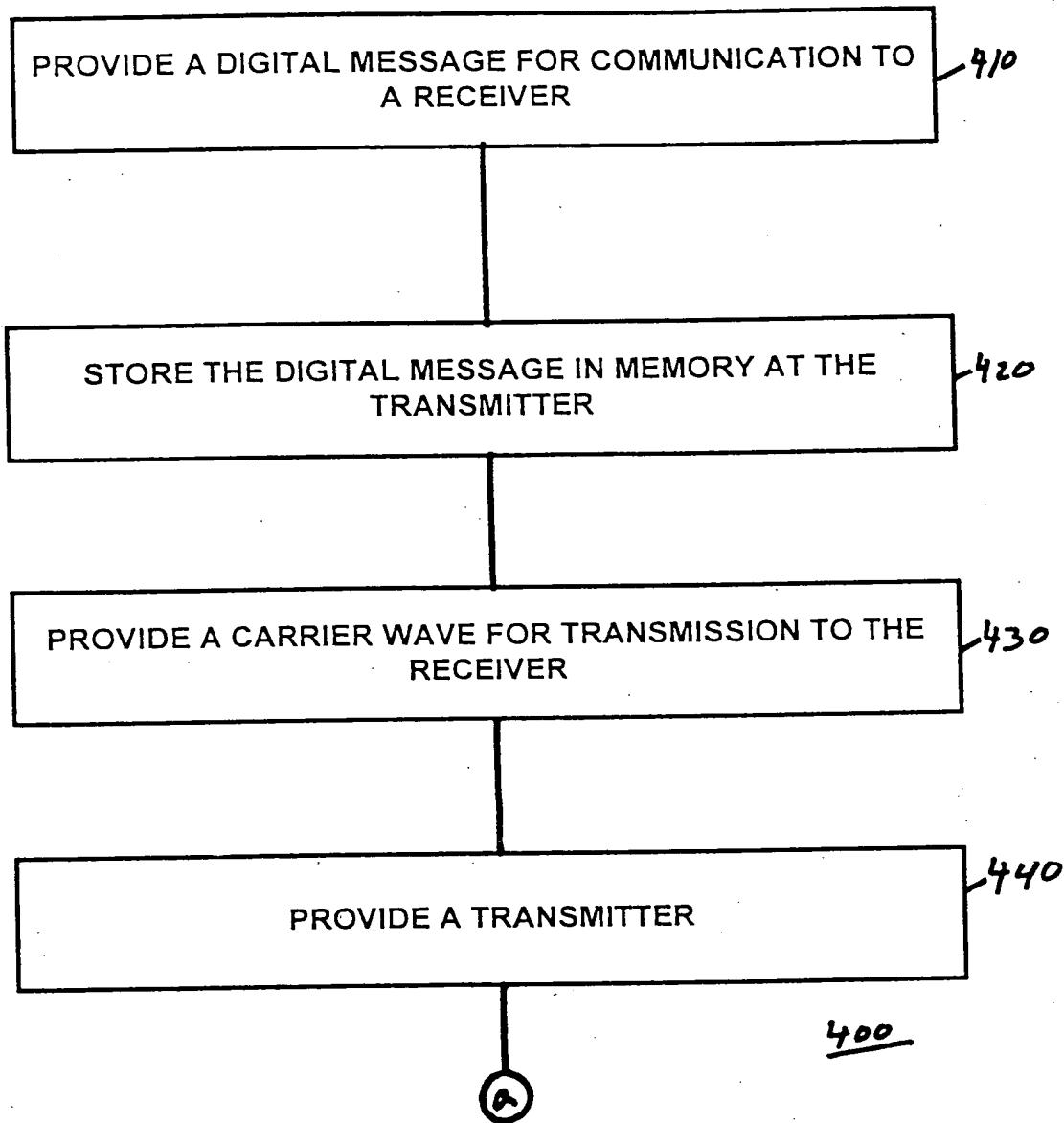


FIG. 4a

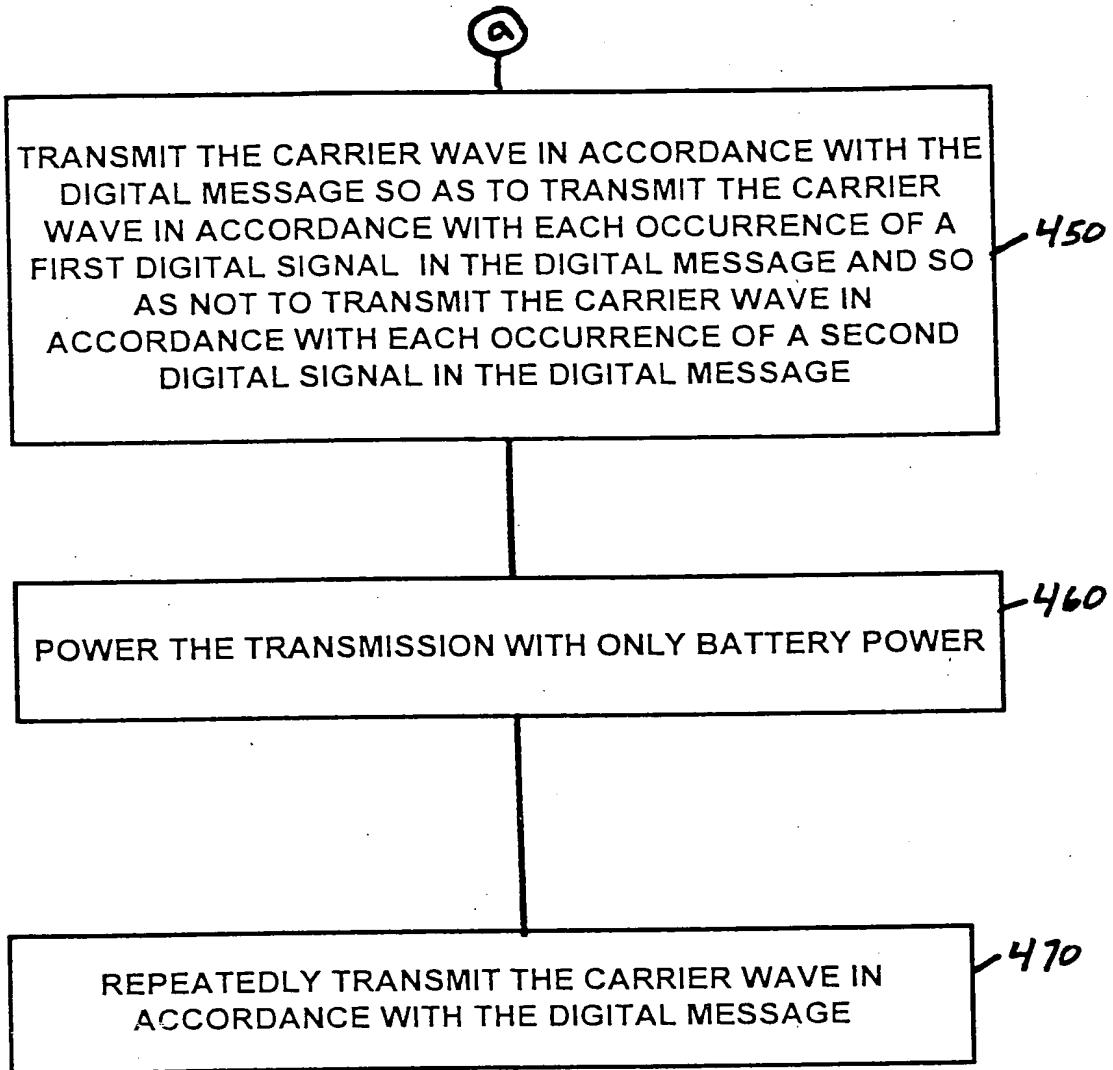


FIG. 4b

RECEIVE A WAKE UP SIGNAL TO ALERT THE RECEIVER TO
AN INCOMING MESSAGE

-510

PROVIDE A RECEIVER

-520

RECEIVE A CARRIER WAVE SIGNAL FOR USE IN
CONTROLLING AN ANIMAL

-530

DETERMINE A DIGITAL MESSAGE FROM THE CARRIER
WAVE SIGNAL WHEREIN RECEIPTION OF THE CARRIER
WAVE CORRESPONDS TO A FIRST DIGITAL SIGNAL IN THE
DIGITAL MESSAGE AND NON-RECEPTION OF THE CARRIER
WAVE CORRESPONDS TO A SECOND DIGITAL SIGNAL IN
THE DIGITAL MESSAGE AND WHEREIN THE SECOND
DIGITAL SIGNAL IS OPPOSITE IN VALUE TO THE FIRST
DIGITAL SIGNAL

-540

UTILIZING THE DIGITAL MESSAGE TO TRANSMIT A
CORRECTION SIGNAL

-550

500

FIG. 5

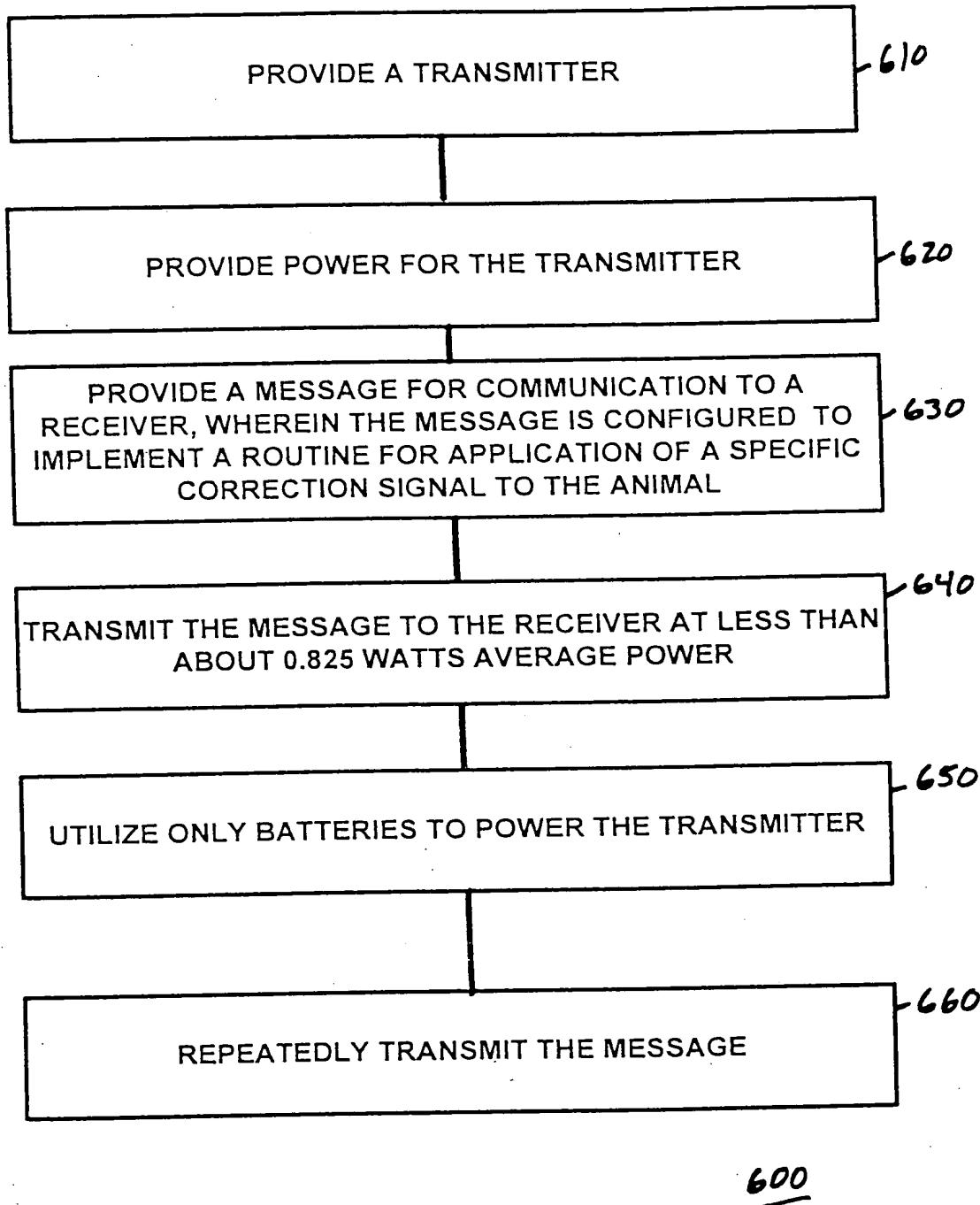


FIG. 6

CONFIGURE A RECEIVER TO RECEIVE A SIGNAL HAVING
A PREDETERMINED FREQUENCY

-710

DETECT A SIGNAL

-720

TAKE A FIRST SET OF SAMPLES OF THE SIGNAL AT
MULTIPLE INTERVALS DURING A FIRST TIME PERIOD
CORRESPONDING TO AT LEAST ONE CYCLE AT THE
FREQUENCY

-730

UTILIZE THE FIRST SET OF SAMPLES TO CALCULATE A
CHARACTERISTIC OF THE SIGNAL DURING THE FIRST
CYCLE

-740

TAKE A SECOND SET OF SAMPLES OF THE SIGNAL AT
MULTIPLE INTERVALS DURING A SUBSEQUENT TIME
PERIOD CORRESPONDING TO AT LEAST ONE CYCLE AT
THE FREQUENCY

-750

700

FIG. 7a

(a)

UTILIZE THE SECOND SET OF SAMPLES TO CALCULATE THE CHARACTERISTIC OF THE SIGNAL DURING THE SECOND CYCLE

-755

COMPARE THE CALCULATED CHARACTERISTIC OF THE FIRST TIME PERIOD WITH THE CALCULATED CHARACTERISTIC OF THE SUBSEQUENT TIME PERIOD SO AS TO DETERMINE WHETHER THE FIRST CYCLE AND THE SECOND CYCLE OF THE SIGNAL HAVE THE PREDETERMINED FREQUENCY

-760

DETERMINE A DIGITAL MESSAGE FROM THE SIGNAL IF THE SIGNAL IS RECEIVED AT THE PREDETERMINED FREQUENCY

-770

UTILIZE THE DIGITAL MESSAGE TO TRANSMIT A CORRECTION SIGNAL TO THE ANIMAL

-780

CALCULATE THE CHARACTERISTIC ACCORDING TO THE FORMULA

$$\text{PEAK_SIG} = (a_0 - a_{180})^2 + (a_90 - a_{270})^2$$

-790

FIG. 7b

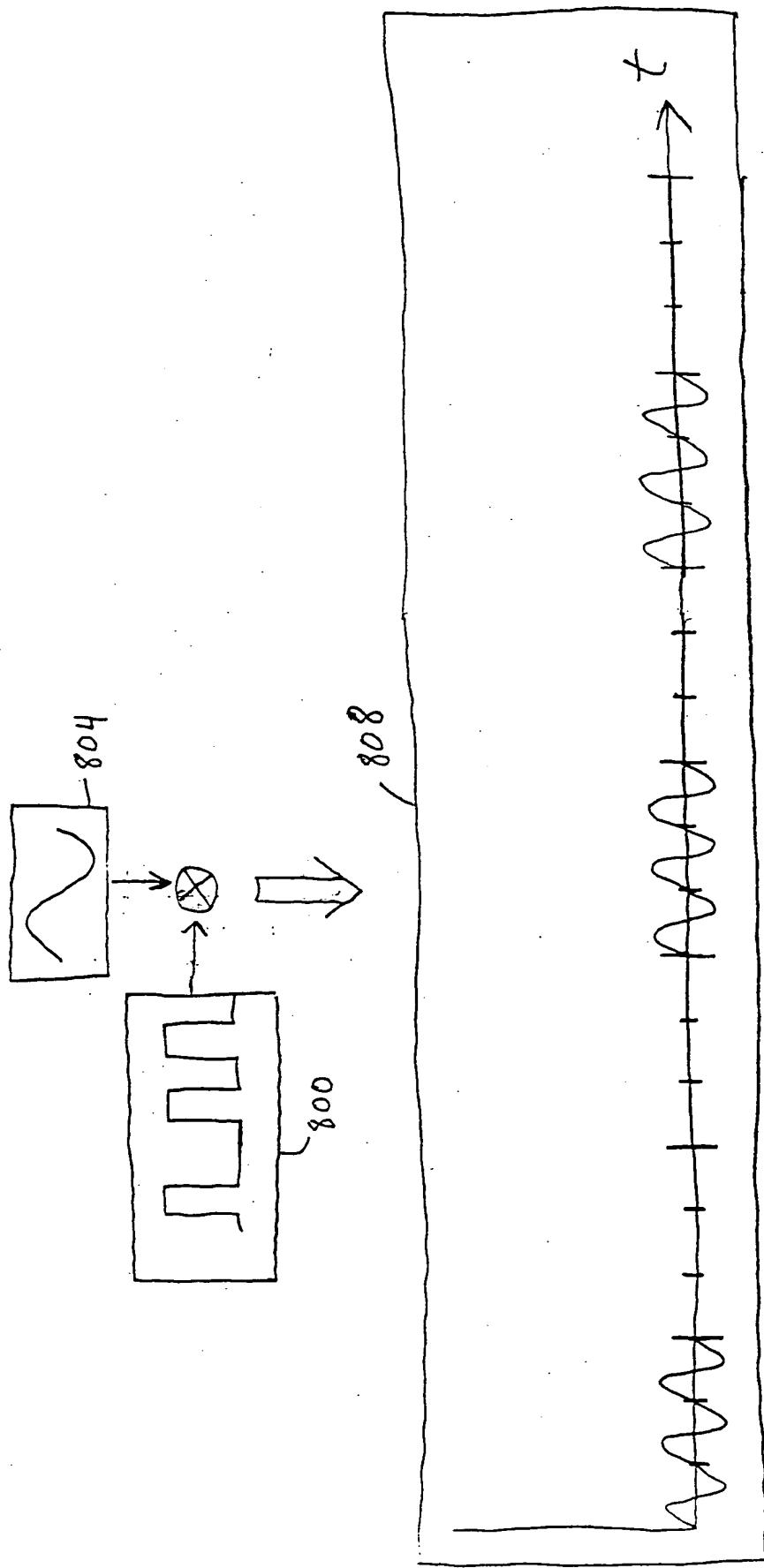


FIG. 8

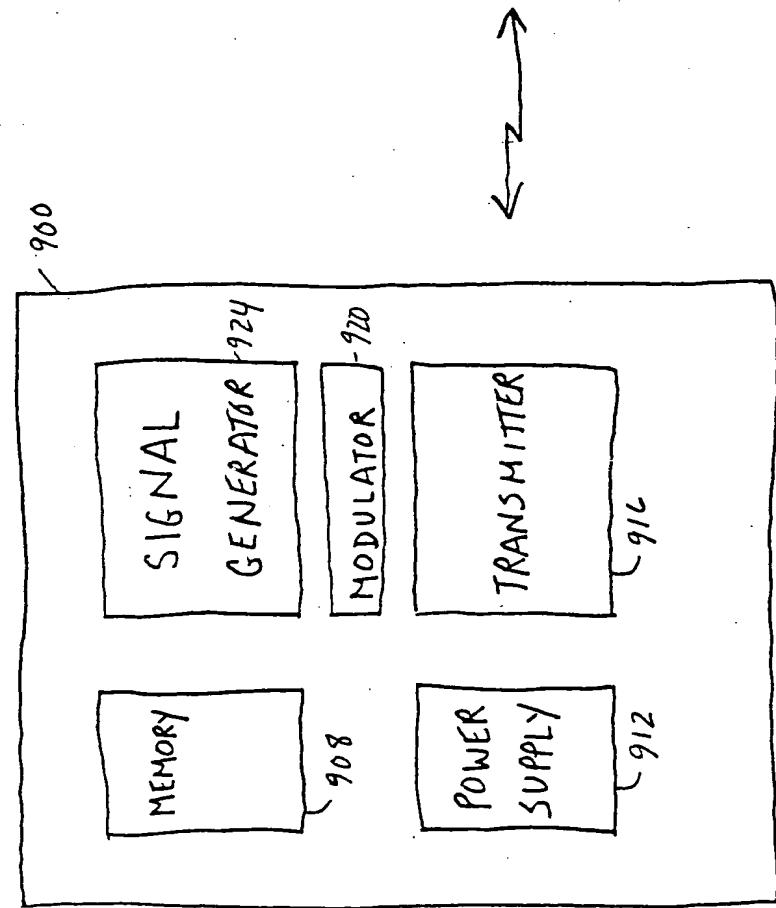
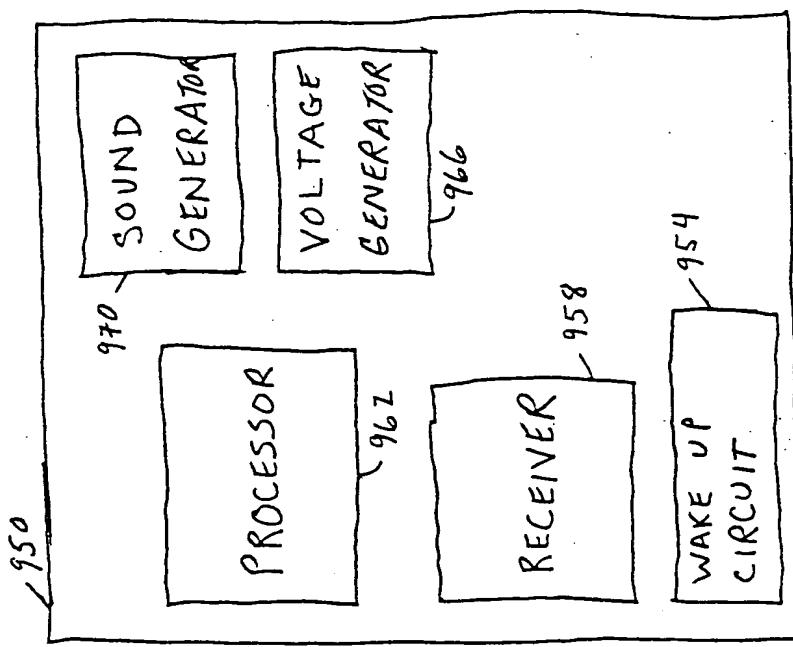


FIG. 9

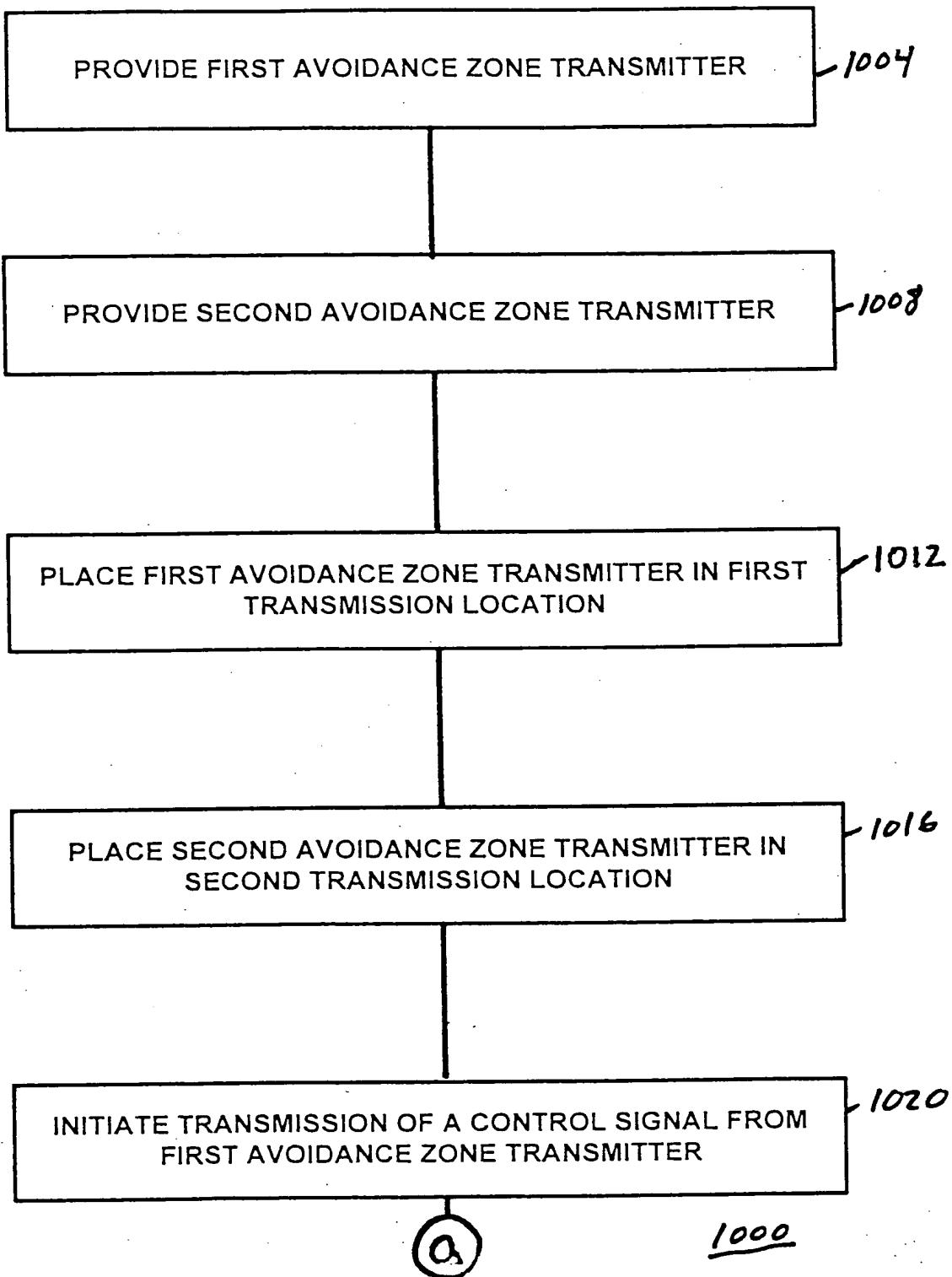


FIG. 10a



VARY INITIATION OF SUCCESSIVE TRANSMISSIONS OF
THE CONTROL SIGNAL FROM THE FIRST AVOIDANCE
ZONE TRANSMITTER WITHIN SUCCESSIVE CONTROL
SIGNAL WINDOWS

1024

VARY INITIATION OF SUCCESSIVE TRANSMISSIONS OF THE
CONTROL SIGNAL FROM THE SECOND AVOIDANCE ZONE
TRANSMITTER WITHIN SUCCESSIVE CONTROL SIGNAL
WINDOWS

1028

FIG. 10b

GENERATE A CONTROL SIGNAL FOR TRANSMISSION TO AN ANIMAL CONTROL RECEIVER, WHEREIN THE CONTROL SIGNAL IS GENERATED FOR TRANSMISSION WITHIN A CONTROL SIGNAL WINDOW AND WHEREIN THE CONTROL SIGNAL WINDOW IS LONGER THAN THE CONTROL SIGNAL

1104

DETERMINE A FIRST POINT IN TIME WITHIN THE CONTROL SIGNAL WINDOW TO BEGIN TRANSMISSION OF THE CONTROL SIGNAL, WHEREIN THE FIRST POINT IN TIME WITHIN THE CONTROL SIGNAL WINDOW ALLOWS FOR TRANSMISSION OF THE CONTROL SIGNAL WITHIN THE CONTROL SIGNAL WINDOW

1108

INITIATE TRANSMISSION OF THE CONTROL SIGNAL AT THE FIRST POINT IN TIME

1112

GENERATE THE CONTROL SIGNAL FOR TRANSMISSION TO THE ANIMAL CONTROL RECEIVER WITHIN A SECOND CONTROL SIGNAL WINDOW HAVING THE SAME PERIOD AS THE FIRST CONTROL SIGNAL WINDOW

1116

DETERMINE A SECOND POINT IN TIME WITHIN THE SECOND CONTROL SIGNAL WINDOW TO BEGIN TRANSMISSION OF THE CONTROL SIGNAL, WHEREIN THE SECOND POINT IN TIME WITHIN THE SECOND CONTROL SIGNAL WINDOW ALLOWS FOR TRANSMISSION OF THE CONTROL SIGNAL WITHIN THE SECOND CONTROL SIGNAL WINDOW

1120

FIG. 11a

(a)

1100

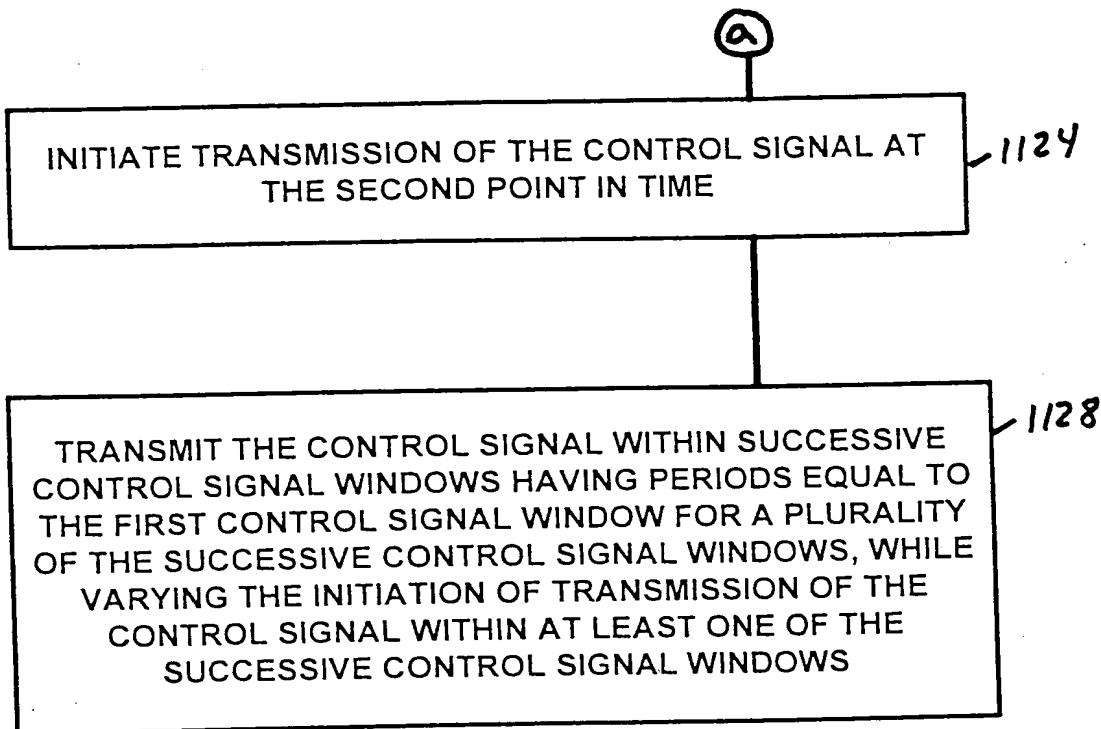


FIG. 11b

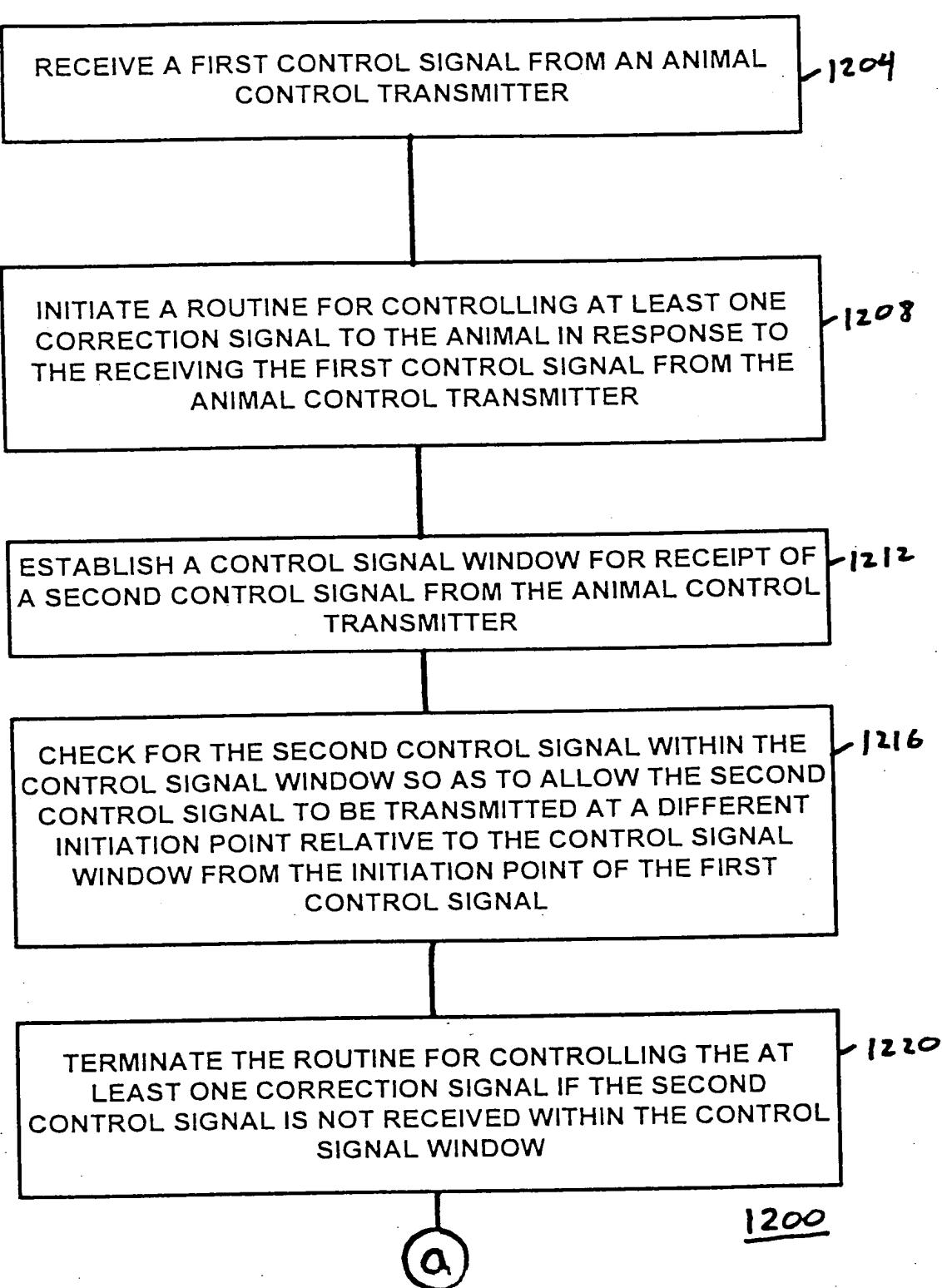


FIG. 12a

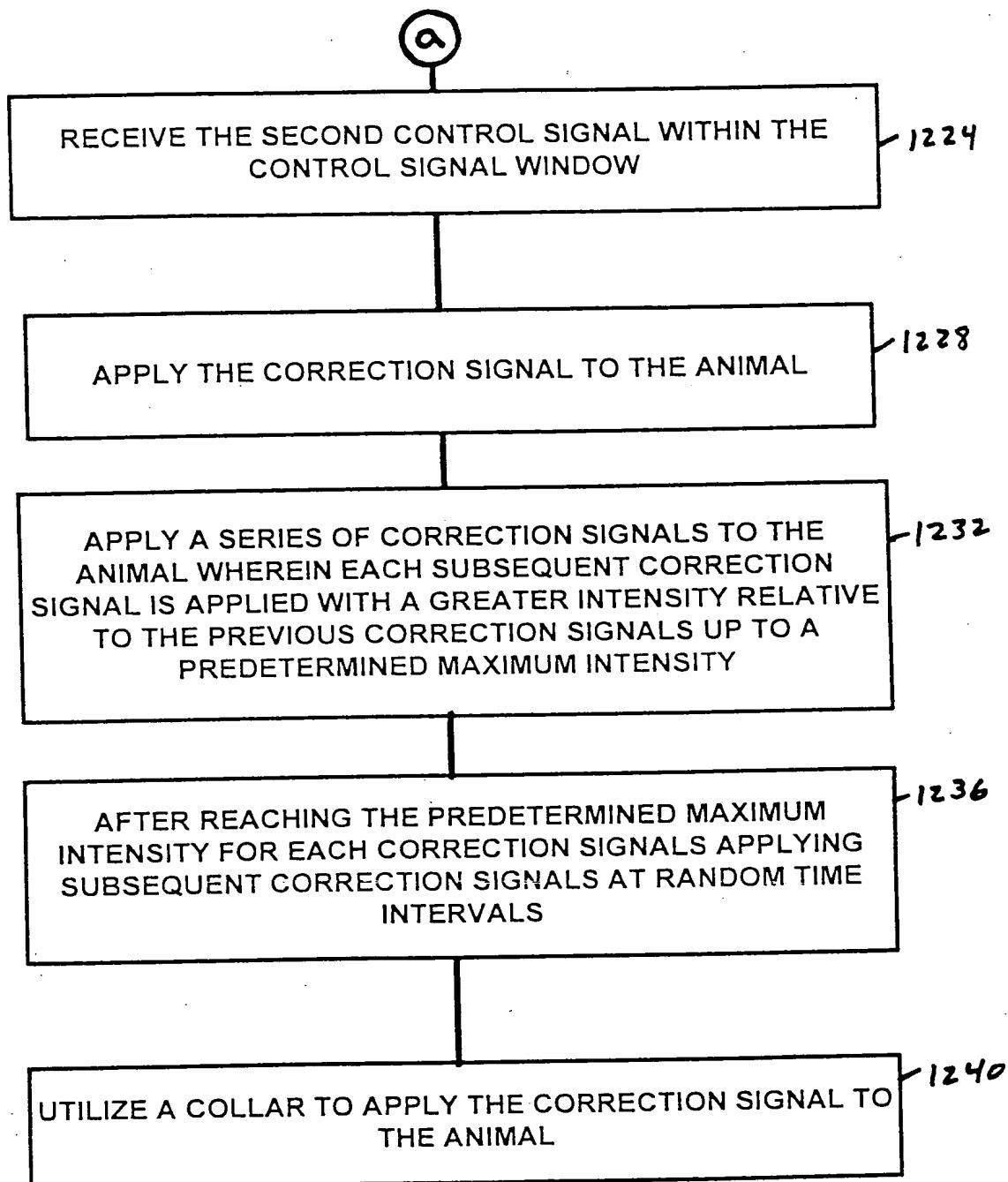


FIG. 12b

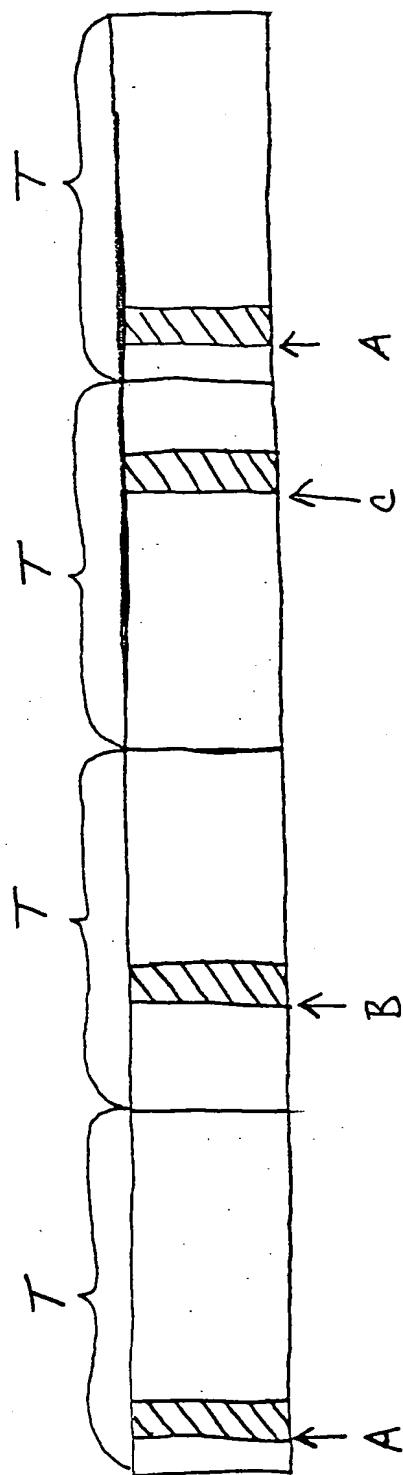


Fig. 13

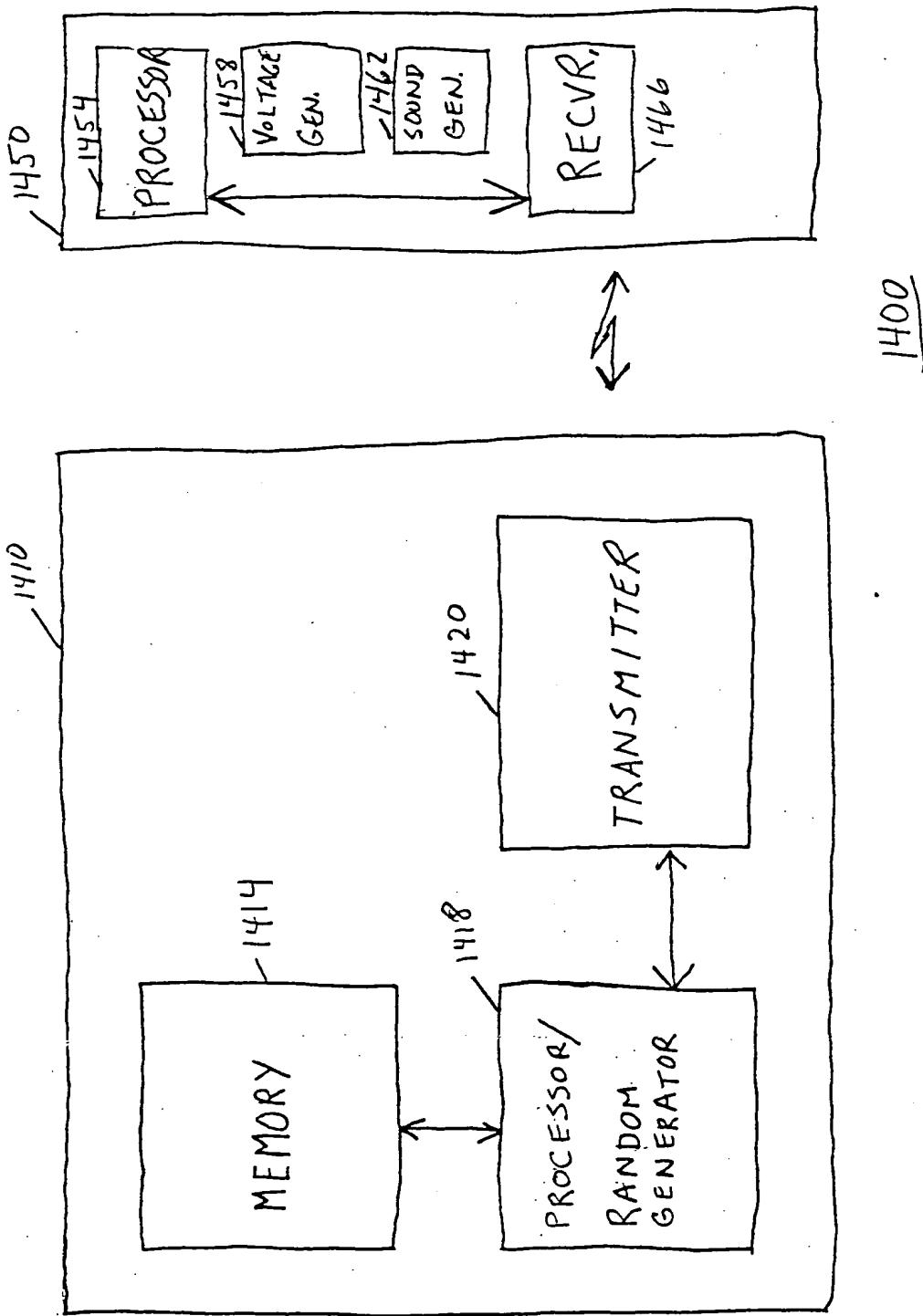


FIG. 14

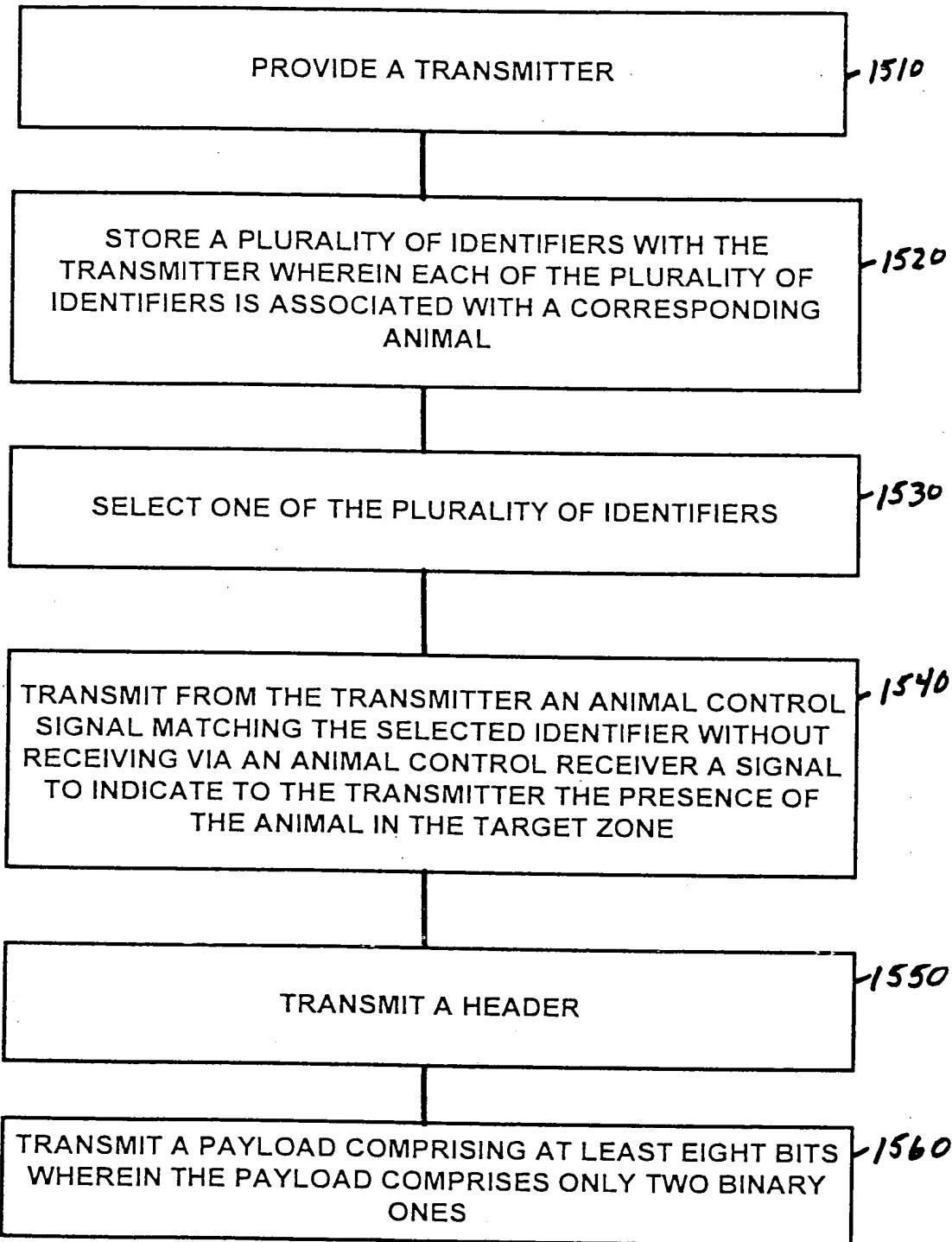


FIG. 15

RECEIVE AN ANIMAL CONTROL SIGNAL FROM A TRANSMITTER, WHEREIN THE ANIMAL CONTROL SIGNAL IS RECEIVED WITHOUT THE RECEIVER TRANSMITTING A SIGNAL TO INDICATE TO THE TRANSMITTER THE PRESENCE OF THE ANIMAL IN A TARGET ZONE

-1610

STORE AN IDENTIFIER IN A MEMORY, WHEREIN THE IDENTIFIER IS ASSOCIATED WITH ONE OF A PLURALITY OF ANIMALS

-1620

PROVIDE A PROCESSOR CONFIGURED TO INITIATE A ROUTINE FOR APPLICATION OF THE CORRECTION SIGNAL TO THE ANIMAL IF THE ANIMAL CONTROL SIGNAL RECEIVED FROM THE TRANSMITTER MATCHES THE IDENTIFIER

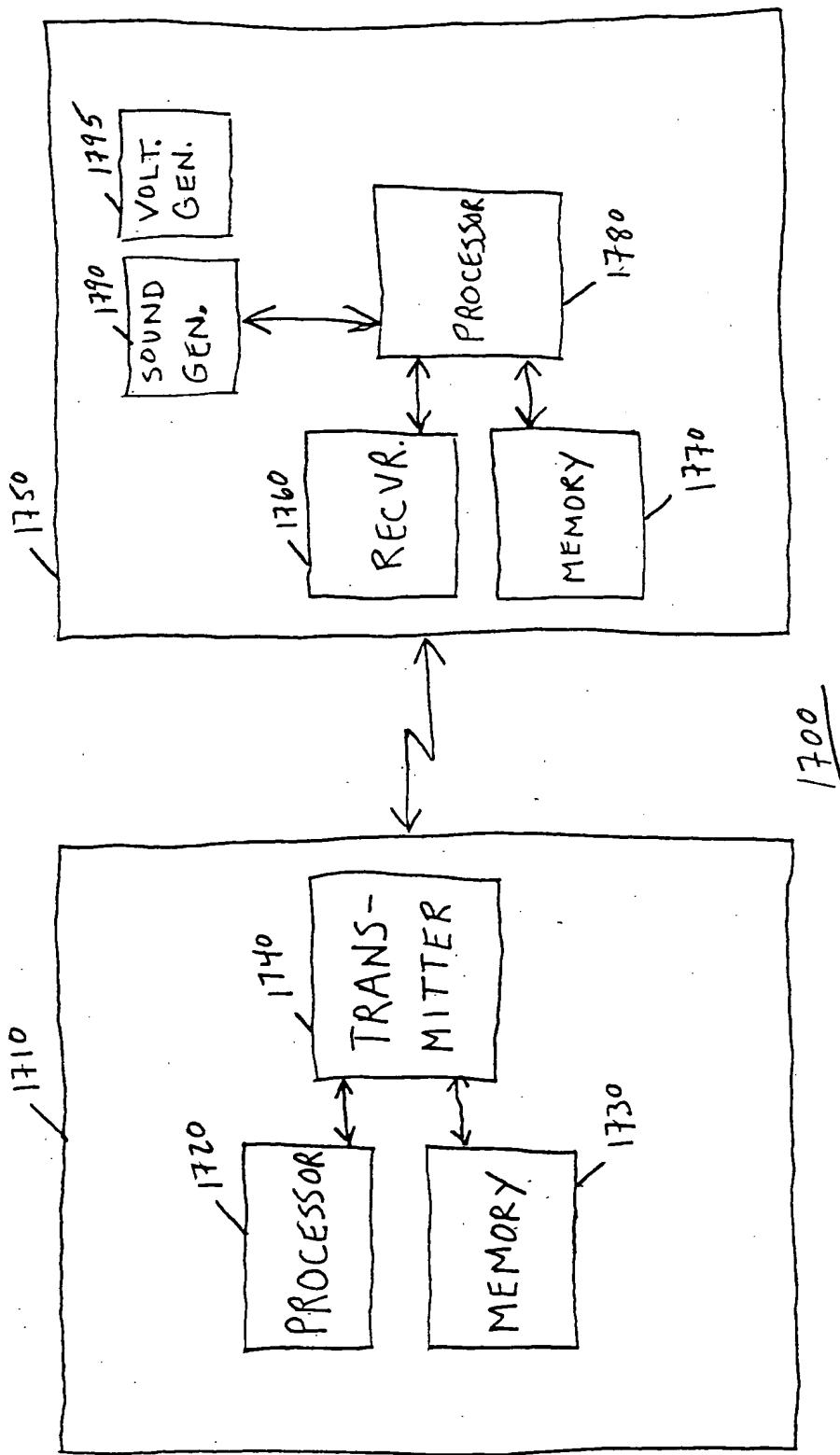
-1630

GENERATE A CORRECTION SIGNAL FOR USE BY THE ROUTINE

-1640

1600

FIG. 16



F16. 17

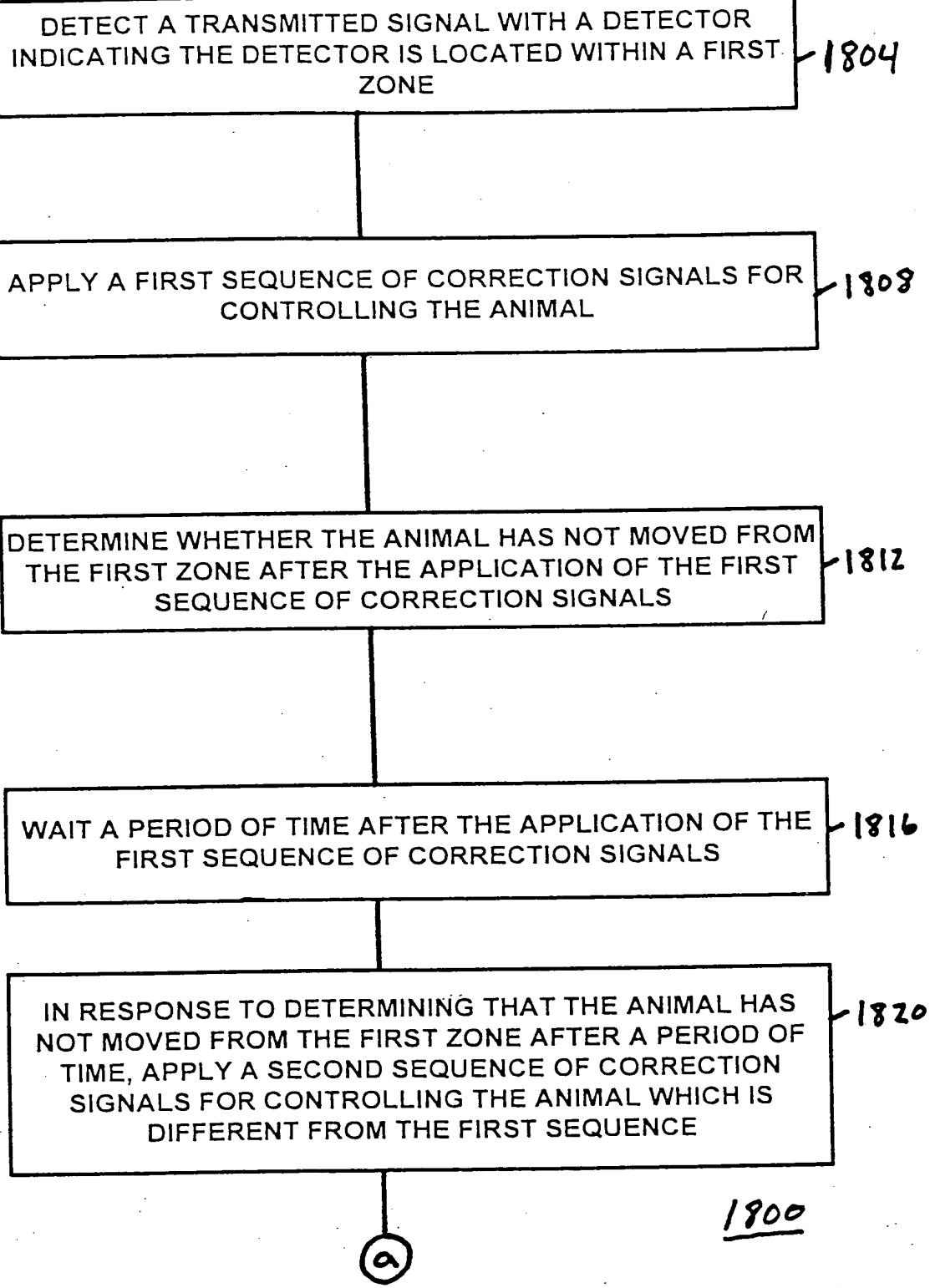


FIG. 18a

(a)

RANDOMLY SELECT THE TIME INTERVALS BETWEEN
CORRECTION SIGNALS IN THE SECOND SEQUENCE OF
CORRECTION SIGNALS

1824

RANDOMLY SELECT A SIGNAL MAGNITUDE FOR SIGNALS
IN THE SECOND SEQUENCE OF CORRECTION SIGNALS

1828

FIG. 18b

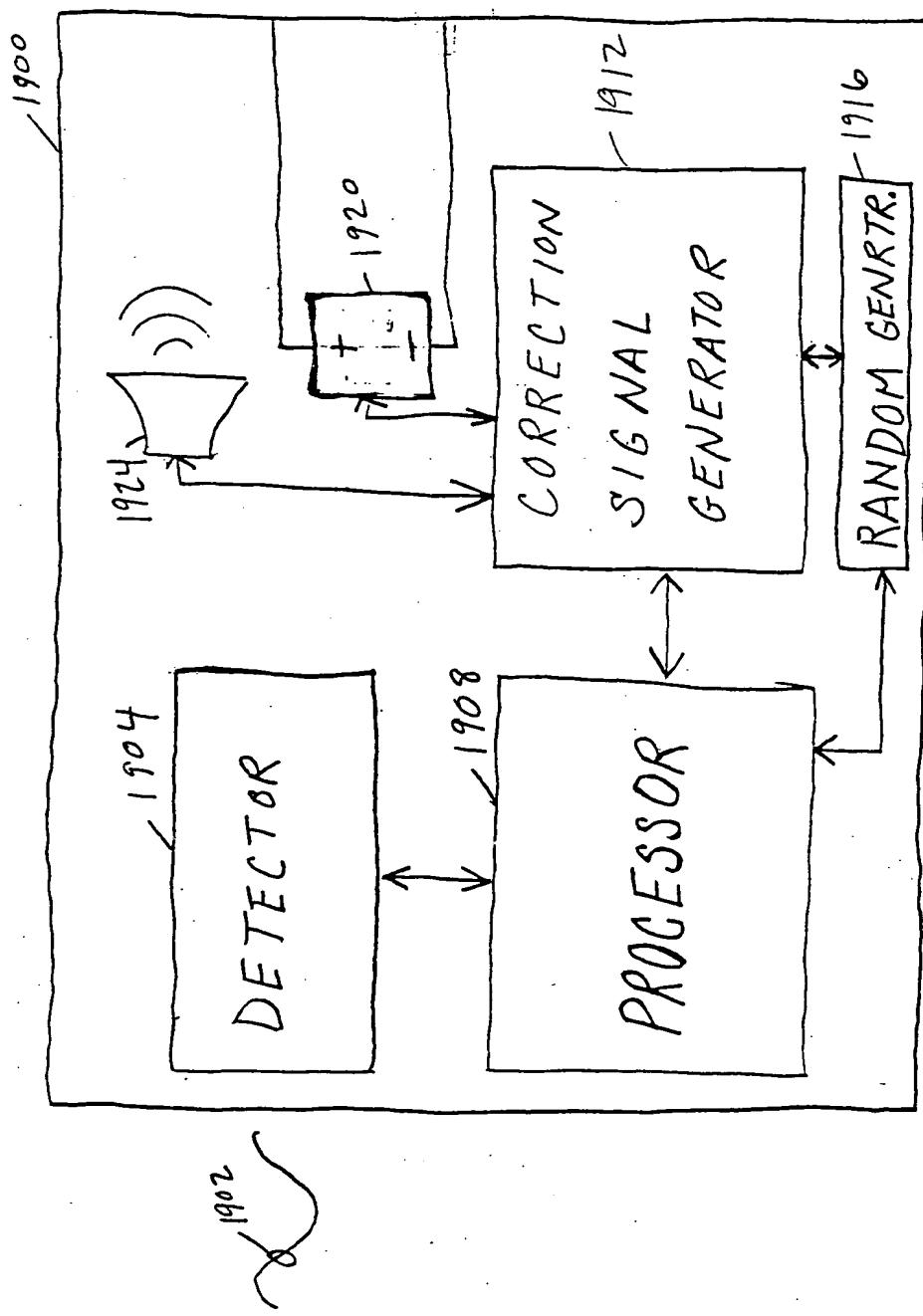


FIG. 19

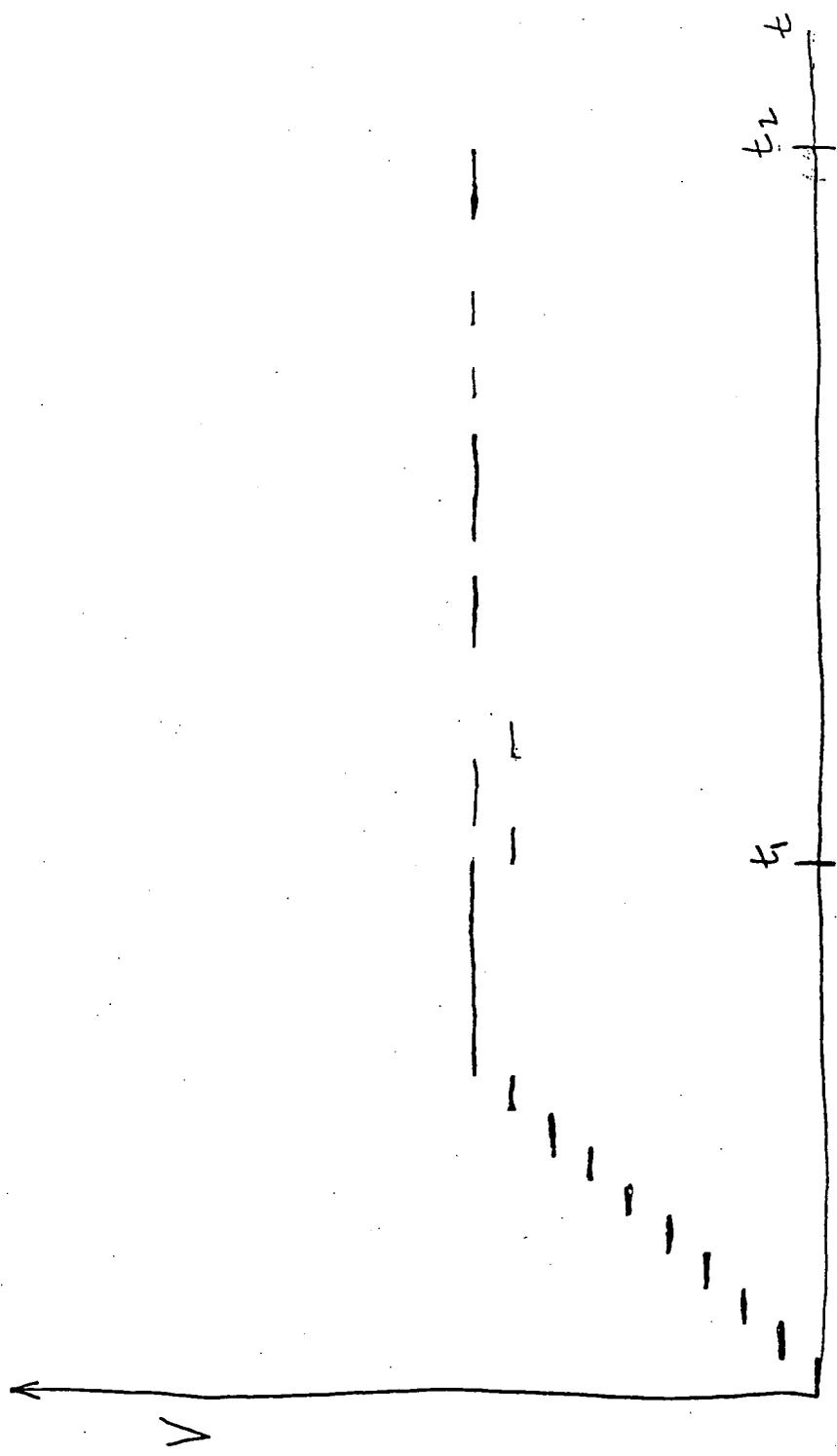


FIG. 20

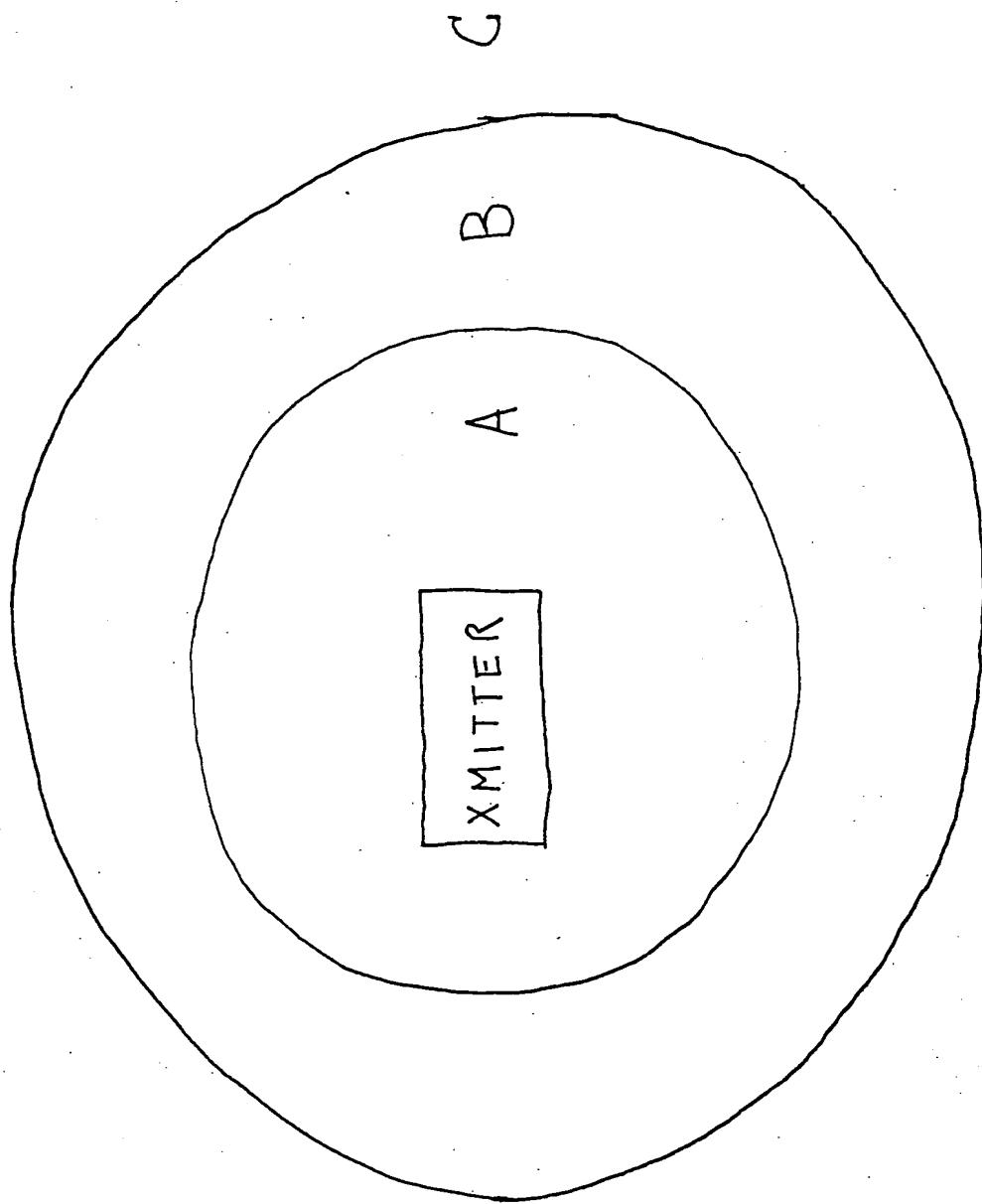


FIG. 21